

(Original)
1. A hair-treatment agent with a content of a combination of

- 5 (A) a terpolymer constructed from vinylpyrrolidone, methacrylamide and vinylimidazole and
(B) at least one active ingredient or additive chosen from viscosity-modifying substances, haircare substances, hair-setting substances,
10 silicone compounds, photoprotective substances, oils, waxes, preservatives, pigments, soluble dyes, particulate substances, and surfactants

in a suitable cosmetic base.

- 15 (Original)
2. The agent as claimed in claim 1, characterized in that the terpolymer (A) is present in an amount of from 0.1 to 10% by weight and that the viscosity-modifying substance present in an amount of from
20 0.1 to 5% by weight is a thickening polymer, chosen from copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one second monomer type, which is chosen from esters of
25 acrylic acid and ethoxylated fatty alcohol; crosslinked polyacrylic acid; crosslinked copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one second monomer type, which is chosen from esters of acrylic acid with C10- to C30-
30 alcohols; copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one second monomer type, which is chosen from esters of itaconic acid and ethoxylated fatty alcohol; copolymers of at
35 least one first monomer type, which is chosen from acrylic acid and methacrylic acid, at least one second monomer type, which is chosen from esters of itaconic acid and ethoxylated C10- to C30-

alcohol and a third monomer type, chosen from C1-
to C4-aminoalkyl acrylates; copolymers of two or
more monomers chosen from acrylic acid, meth-
acrylic acid, acrylic esters and methacrylic
5 esters; copolymers of vinylpyrrolidone and ammo-
nium acryloyldimethyltaurate; copolymers of ammo-
nium acryloyldimethyltaurate and monomers chosen
from esters of methacrylic acid and ethoxylated
fatty alcohols; hydroxyethylcellulose; hydroxypro-
10 pylcellulose; hydroxypropylguar; glyceryl poly-
acrylate; glyceryl polymethacrylate; copolymers of
at least one C2-, C3- or C4-alkylene and styrene;
polyurethanes; hydroxypropyl starch phosphate;
polyacrylamide; copolymer of maleic anhydride and
15 methyl vinyl ether crosslinked with decadiene;
carob seed flour; guar gum; xanthan; dehydro-
xanthan; carrageenan; karaya gum; hydrolyzed corn
starch; copolymers of polyethylene oxide, fatty
alcohols and saturated methylenediphenyl diiso-
20 cyanate.

(correctly amended)

3. The agent as claimed in ~~one of the preceding~~
~~claims,~~ ^{claim} characterized in that the haircare or
hair-setting substance present is a polymer with
25 anionic or anionizable groups, chosen from
terpolymers of acrylic acid, ethyl acrylate and
N-tert-butylacrylamide; crosslinked or uncross-
linked vinyl acetate/crotonic acid copolymers;
terpolymers of tert-butyl acrylate, ethyl acrylate
30 and methacrylic acid; sodium polystyrenesulfonate;
copolymers of vinyl acetate, crotonic acid and
vinyl propionate; copolymers of vinyl acetate,
crotonic acid and vinyl neodecanoate; aminomethyl-
propanol acrylate copolymers; copolymers of vinyl-
35 pyrrolidone and at least one further monomer
chosen from acrylic acid, methacrylic acid,
acrylic esters and methacrylic esters; copolymers
of methyl vinyl ether and maleic monoalkyl esters;
aminomethylpropanol salts of copolymers of allyl

methacrylate and at least one further monomer
chosen from acrylic acid, methacrylic acid,
acrylic esters and methacrylic esters; crosslinked
copolymers of ethyl acrylate and methacrylic acid;
5 copolymers of vinyl acetate, mono-n-butyl maleate
and isobornyl acrylate; copolymers of two or more
monomers chosen from acrylic acid, methacrylic
acid, acrylic esters and methacrylic esters,
copolymers of octylacrylamide and at least one
10 monomer chosen from acrylic acid, methacrylic
acid, acrylic esters and methacrylic esters;
polyesters of diglycol, cyclohexanedimethanol,
isophthalic acid and sulfoisophthalic acid.

(currently amended)
15 4. The agent, as claimed in ~~one of the preceding~~
~~claims,~~ characterized in that the haircare or
hair-setting substance present is a polymer with
cationic or cationizable groups chosen from
20 cationic cellulose derivatives of hydroxyethyl-
cellulose and diallyldimethylammonium chloride;
cationic cellulose derivatives of hydroxyethyl-
cellulose and with trimethylammonium substituted
epoxide; poly(dimethyldiallylammonium chloride);
25 copolymers of acrylamide and dimethyldiallyl-
ammonium chloride; quaternary ammonium polymers
formed by the reaction of diethyl sulfate and a
copolymer of vinylpyrrolidone and dimethylamino-
ethyl methacrylate; quaternary ammonium polymers
of methylvinylimidazolium chloride and vinyl-
30 pyrrolidone; polyquaternium-35; polymer of tri-
methylammonium-ethyl methacrylate chloride; poly-
quaternium-57; dimethylpolysiloxanes terminally
substituted by quaternary ammonium groups; copoly-
mer of vinylpyrrolidone, dimethylaminopropyl-
35 methacrylamide and methacryloylaminopropyl-
lauryldimethylammonium chloride; chitosan and
salts thereof; hydroxyalkylchitosans and salts
thereof; alkylhydroxyalkylchitosans and salts
thereof; N-hydroxyalkylchitosan alkyl ethers;

N-hydroxyalkylchitosan benzyl ethers; copolymer of vinylcaprolactam, vinylpyrrolidone and dimethylaminoethyl methacrylate; copolymers of vinylpyrrolidone and dimethylaminoethyl methacrylate, copolymers of vinylpyrrolidone, vinylcaprolactam and dimethylaminopropylacrylamide; polyesters or oligoesters constructed from at least one first monomer type which is chosen from hydroxy acid substituted by at least one quaternary ammonium group.

(currently amended)

5. The agent, as claimed in ~~one of the preceding claims~~^{claim 1}, characterized in that the haircare or hair-setting substance present is a zwitterionic and/or an amphoteric polymer chosen from copolymers of octylacrylamide, acrylic acid, butylaminoethyl methacrylate, methyl methacrylate and hydroxypropyl methacrylate; copolymers of lauryl acrylate, stearyl acrylate, ethylamine oxide methacrylate and at least one monomer chosen from acrylic acid, methacrylic acid, acrylic esters and methacrylic esters; copolymers of methacryloyl-ethylbetaine and at least one monomer chosen from methacrylic acid and methacrylic esters; copolymers of acrylic acid, methyl acrylate and methacrylamidopropyltrimethylammonium chloride; oligomers or polymers preparable from quaternary croton betaines or quaternary croton betaine esters.

(currently amended)

6. The agent, as claimed in ~~one of the preceding claims~~^{claim 1}, characterized in that the haircare or hair-setting substance present is a nonionic polymer chosen from polyvinylpyrrolidone, polyvinylcaprolactam, vinylpyrrolidone/vinyl acetate copolymers, polyvinyl alcohol, isobutylene/ethylmaleimide/hydroxyethylmaleimide copolymer; copolymers of vinylpyrrolidone, vinyl acetate and vinyl propionate.

(currently amended)

7. The agent as claimed in ~~one of the preceding~~
~~claims,~~ ^{*claim 1*} characterized in that at least one
silicone compound is present chosen from cyclic
dimethylsiloxanes, linear polydimethylsiloxanes,
5 block polymers of polydimethylsiloxane and poly-
ethylene oxide and/or polypropylene oxide, polydi-
methylsiloxanes with terminal or lateral poly-
ethylene oxide or polypropylene oxide radicals,
polydimethylsiloxanes with terminal hydroxyl
10 groups, phenyl-substituted polydimethylsiloxanes,
silicone emulsions, silicone elastomers, silicone
waxes, silicone gums and amino-substituted
silicones.

(currently amended)

15 8. The agent, as claimed in ~~one of the preceding~~
~~claims,~~ ^{*claim 1*} characterized in that at least one photo-
protective substance is present chosen from
2-ethylhexyl 4-methoxycinnamate, methyl methoxy-
cinnamate, 2-hydroxy-4-methoxybenzophenone-5-sul-
20 fonic acid and polyethoxylated p-aminobenzoates.

(currently amended)

9. The agent, as claimed in ~~one of the preceding~~
~~claims,~~ ^{*claim 1*} characterized in that at least one oil or
wax is present chosen from paraffin waxes,
25 polyolefin waxes, wool wax, wool wax alcohols,
candelilla wax, olive wax, carnauba wax, Japan
wax, apple wax, hydrogenated fats, fatty acid
esters, fatty acid glycerides, fatty acid trigly-
cerides, mineral oils, isoparaffin oils, paraffin
30 oils, squalane, sunflower oil, coconut oil, castor
oil, lanolin oil, jojoba oil, corn oil, soybean
oil.

(currently amended)

10. The agent as claimed in ~~one of the preceding~~
~~claims,~~ ^{*claim 1*} characterized in that at least one
35 haircare or hair-setting substance is present
chosen from betaine; panthenol; panthenyl ethyl
ether; sorbitol; protein hydrolysates; plant
extracts; A-B block copolymers of alkyl acrylates

and alkyl methacrylates; A-B block copolymers of
alkyl methacrylates and acrylonitrile; A-B-A block
copolymers of lactide and ethylene oxide; A-B-A
block copolymers of caprolactone and ethylene
oxide; A-B-C block copolymers of alkylene or
alkadiene compounds, styrene and alkyl
methacrylates; A-B-C block copolymers of acrylic
acid, styrene and alkyl methacrylates; star-shaped
block copolymers; hyperbranched polymers,
dendrimers, intrinsically electrically conductive
3,4-polyethylenedioxythiophenes and intrinsically
electrically conductive polyanilines.

(currently amended)

11. The agent, as claimed in ~~one of the preceding~~
~~claims,~~ ^{claim 1} characterized in that at least one
surfactant is present chosen from addition
products of from 2 to 30 mol of ethylene oxide
and/or 1 to 5 mol of propylene oxide onto C8- to
C22-fatty alcohols, addition products of from 2 to
30 mol of ethylene oxide and/or 1 to 5 mol of
propylene oxide onto C12- to C22-fatty acids,
addition products of from 2 to 30 mol of ethylene
oxide and/or 1 to 5 mol of propylene oxide onto
alkyl phenols having 8 to 15 carbon atoms in the
alkyl group, C12- to C22-fatty acid mono- and
diesters of addition products of from 1 to 30 mol
of ethylene oxide onto glycerol, addition products
of from 5 to 60 mol of ethylene oxide onto castor
oil or onto hydrogenated castor oil, mono-, di- or
triesters of phosphoric acid with addition
products of from 2 to 30 mol of ethylene oxide
onto C8- to C22-fatty alcohols, esters of sucrose
and one or two C8- to C22-fatty acids, esters of
sorbitan and one, two or three C8- to C22-fatty
acids and a degree of ethoxylation of from 4 to
20, polyglyceryl fatty acid esters of one, two or
more C8- to C22-fatty acids and polyglycerol
having 2 to 20 glyceryl units, alkyl glycosides,
C8-22-alkyldimethylbenzylammonium compounds,

C8-22-alkyltrimethylammonium compounds, C8-22-alkyldimethylhydroxyethylammonium compounds, di(C8-22-alkyl)dimethylammonium compounds, C8-22-alkylpyridinium salts, C8-22-alkylamidoethyltrimethylammonium ether sulfates, C8-22-alkylmethylanine oxides, C8-22-alkylaminoethyltrimethylamine oxides.

(currently amended)

12. The agent, as claimed in ~~one of the preceding~~
10 ~~claims,~~ characterized in that a preservative is
present chosen from phenoxyethanol, benzyl
paraben, butyl paraben, ethyl paraben, isobutyl
paraben, isopropyl paraben, methyl paraben, propyl
paraben, methyldibromoglutaronitrile, DMDM
15 hydantoin.

(currently amended)

13. The agent, as claimed in ~~one of the preceding~~
20 ~~claims,~~ characterized in that at least one pigment
is present chosen from titanium dioxide (CI
77891), black iron oxide (CI 77499), yellow iron
oxide (CI 77492), red and brown iron oxide (CI
77491), manganese violet (CI 77742), ultramarine
(CI 77007), chromium oxide hydrate (CI 77289),
Prussian blue (CI 77510), bismuth oxychloride (CI
25 77163), carmine (cochineal), pearlescent and
colored pigments based on mica which are coated
with a metal oxide or a metal oxychloride, such as
titanium dioxide or bismuth oxychloride, and
optionally further color-imparting substances,
30 such as iron oxides, iron blue, ultramarine or
carmine and where the color is determined by
varying the layer thickness.

(currently amended)

14. The agent, as claimed in ~~one of the preceding~~
35 ~~claims,~~ characterized in that at least one
particulate substance is present chosen from
silica, silicates, aluminates, clay earths, mica,
insoluble metal salts, metal oxides, minerals and
insoluble polymer particles.

(currently amended)

15. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
characterized in that it is in the form of a gel,
in the form of a viscous lotion or in the form of
5 a spray gel which is sprayed with a mechanical
device, comprises at least one thickening polymer
according to claim 2 and has a viscosity of at
least 250 mPa s (measured using a Bohlin rheometer
CS, measurement body C25 at 25°C and a shear rate
10 of 50 s⁻¹).

(currently amended)

16. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
characterized in that it is in the form of an O/W
emulsion, a W/O emulsion or a microemulsion, and
15 comprises at least one oil or wax according to
claim 9, and at least one surfactant according to
claim 11.

(currently amended)

17. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
20 characterized in that it is in the form of a spray
product and is either in combination with a
mechanical pump spray device or in combination
with at least one propellant chosen from propane,
butane, dimethyl ether and fluorinated hydro-
25 carbons.

(currently amended)

18. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
characterized in that it is in the form of a
foamable product in combination with a device for
30 foaming, comprises at least one foam-forming
surfactant or at least one foam-forming polymer
and is either in combination with a mechanical
pump foam device or in combination with at least
one propellant chosen from propane, butane,
35 dimethyl ether and fluorinated hydrocarbons.

(currently amended)

19. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
characterized in that it is in the form of a hair
wax.

(currently amended)

20. The agent as claimed in ~~one of claims 1 to 14~~, claim 1
characterized in that it is in the form of a
foamable product in combination with a device for
foaming, comprises at least one foam-forming
surfactant or at least one foam-foaming polymer
and is either in combination with a mechanical
pump foaming device or in combination with at
least one propellant, and the active ingredient or
additive is chosen from chitosan, chitosan salts,
chitosan derivatives, cationic cellulose com-
pounds, copolymers of vinylpyrrolidone, vinyl-
caprolactam and a basic acrylamide monomer or
mixtures of these polymers.

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(original)

21. The agent as claimed in claim 20, characterized in
that the active ingredient or additive is chosen
from chitosan, chitosan salts, copolymers of
hydroxyethylcellulose and diallyldimethylammonium
chloride (polyquaternium-4), copolymers of vinyl-
pyrrolidone, vinylcaprolactam and dimethylamino-
propylacrylamide or mixtures of these polymers.

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(currently amended)

22. The agent as claimed in claim 20 ~~or 21~~, charac-
terized in that either copolymers of hydroxyethyl-
cellulose and diallyldimethylammonium chloride
(polyquaternium-4) or copolymers of vinylpyrroli-
done, vinylcaprolactam and dimethylaminopropyl-
acrylamide are present.

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(currently amended)

23. The agent as claimed in ~~one of claims 20 to 22~~, claim 20
characterized in that either copolymers of
hydroxyethylcellulose and diallyldimethylammonium
chloride (polyquaternium-4), or copolymers of
vinylpyrrolidone, vinylcaprolactam and dimethyl-
aminopropylacrylamide, or at least one chitosan
salt are present.

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